

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: October 22, 2004 (use as many sheets as necessary)		<b>Complete if Known</b> Application Number: 10/710,836 Filing Date: August 5, 2004 First Named Inventor: M. Brandon Steele Group Art Unit: 2812 Examiner Name: Attorney Docket Number: 023228-0115	
Sheet 1	1	of	3

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
mw	A1	2002/0140564	A1	Danyluk et al.	10-03-2002	
mw	A2	2002/0186036	A1	Smith	12-12-2002	
mw	A3	2003/0129776	A1	Eom et al.	07-10-2003	
mw	A4	2003/0175945	A1	Thompson et al.	09-18-2003	
mw	A5	2004/0029131	A1	Thompson et al.	02-12-2004	
mw	A6	2004/0057497	A1	Lagowski et al.	03-25-2004	
mw	A7	4,166,974	A1	Vermeers	09-04-1979	
mw	A8	4,295,092	A1	Okamura	10-13-1981	
mw	A9	4,481,616	A1	Matey	11-06-1984	
mw	A10	4,973,910	A1	Wilson	11-27-1990	
mw	A11	5,087,533	A1	Brown	02-11-1992	
mw	A12	5,136,247	A1	Hansen	08-04-1992	
mw	A13	5,214,389	A1	Cao et al.	05-25-1993	
mw	A14	5,217,907	A1	Bulucea et al.	06-08-1993	
mw	A15	5,218,362	A1	Mayes et al.	06-08-1993	
mw	A16	5,270,664	A1	McMurtry et al.	12-14-1993	
mw	A17	5,272,443	A1	Winchip et al.	12-21-1993	
mw	A18	5,278,407	A1	Ikebe et al.	01-11-1994	
mw	A19	5,293,131	A1	Semones et al.	03-08-1994	
mw	A20	5,315,259	A1	Jostlein	05-24-1994	
mw	A21	5,369,370	A1	Stratmann et al.	11-29-1994	
mw	A22	5,381,101	A1	Bloom et al.	01-10-1995	
mw	A23	5,460,684	A1	Saeki et al.	10-24-1995	
mw	A24	5,517,123	A1	Zhao et al.	05-1996	
mw	A25	5,583,443	A1	McMurtry et al.	12-18-1996	
mw	A26	5,723,980	A1	Haase et al.	03-03-1998	
mw	A27	5,723,981	A1	Hellemans et al.	03-03-1998	
mw	A28	5,773,989	A1	Edelman et al.	06-30-1998	
mw	A29	5,974,869	A1	Danyluk et al.	11-02-1999	
mw	A30	5,977,788	A1	Lagowski	11-02-1999	
mw	A31	6,011,404	A1	Ma et al.	01-04-2000	
mw	A32	6,037,797	A1	Lagowski et al.	03-14-2000	
mw	A33	6,091,248	A1	Hellemans et al.	07-19-2000	
mw	A34	6,094,971	A1	Edwards et al.	08-01-2000	
mw	A35	6,097,196	A1	Verukuil et al.	08-01-2000	
mw	A36	6,114,865	A1	Lagowski et al.	09-05-2000	
mw	A37	6,127,289	A1	Debusk	10-03-2000	
mw	A38	6,139,759	A1	Doezema et al.	10-31-2000	

Examiner Signature	<i>Meagan Waeeling</i>	Date Considered	11/4/05
--------------------	------------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: October 22, 2004  (use as many sheets as necessary)				Application Number	10/710,836
				Filing Date	August 5, 2004
				First Named Inventor	M. Brandon Steele
				Group Art Unit	2842-2863
				Examiner Name	
Sheet	2	of	3	Attorney Docket Number	023228-0115

U.S. PATENT DOCUMENTS						
		U.S. Patent Document				
mu	A39	6,198,300		Doezema et al.	03-06-2001	
mu	A40	6,201,401		Hellemans et al.	03-13-2001	
mu	A41	6,232,134		Farber et al.	05-15-2001	
mu	A42	6,255,128		Chacon et al.	07-03-2001	
mu	A43	6,265,890		Chacon et al.	07-24-2001	
mu	A44	6,517,669		Chapman	02-11-2003	
mu	A45	6,538,462		Lagowski et al.	03-25-2003	
mu	A46	6,597,193		Lagowski et al.	07-22-2003	
mu	A47	6,664,546		McCord et al.	12-16-2003	
mu	A48	6,664,800		Chacon et al.	12-16-2003	
mu	A49	6,680,621		Savtchouk et al.	01-20-2004	
mu	A50	6,717,413		Danyluk et al.	04-06-2004	
mu	A51	6,011,404	A1	Ma et al.	01-04-2000	
mu	A52	6,520,839	A1	Gonzalez-Martin et al.	02-18-2003	
mu	A53	6,551,972	B1	Lei et al.	04-22-2003	
mu	A54	2003/0052374	A1	Lee et al.	03-20-2003	
mu	A55	2003/0139838	A1	Marella	07-24-2003	
mu	A56	2003/0164942	A1	Take	09-04-2003	
mu	A57	2004/0058620	A1	Gotkis et al.	03-25-2004	
mu	A58	2004/0105093	A1	Hamamatsu et al.	06-03-2004	
mu	A59	2004/0134515	A1	Castrucci	07-15-2004	
mu	A60	6,717,413		Danyluk et al.	04-06-2004	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
mu	A61	WO	01/90730	A2	Sensorchem Int'l Corp.	11-29-2001	p. 17, ll. 15-30; figs. 10A-B	
mu	A62	DD	297509	A5	Kloeden R.	01-09-1992		A

Examiner Signature	Megan Walling	Date Considered	11/4/05
--------------------	---------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: October 22, 2004  (use as many sheets as necessary)		Application Number	10/710,836
		Filing Date	August 5, 2004
		First Named Inventor	M. Brandon Steele
		Group Art Unit	2812 2863
		Examiner Name	
Sheet 3 of 3	Attorney Docket Number	023228-0115	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
mu	A63	B SCRUTON and B.H. BLOTT, A High Resolution Probe for Scanning Electrostatic Potential Profiles Across Surfaces; Journal of Physics E: Scientific Instruments (May 1973), pp. 472-474; Vol. 6, No. 5, Printed in Great Britain.	
mu	A64	YANO D ET AL: "Nonvibrating contact potential difference probe measurement of a nanometer-scale lubricant on a hard disk", Journal of Tribology, American Society of Mechanical Engineers, New York, NY, US; Vol. 121, No. 4, October 1999, pages 980-983, XP008031092, ISSN: 0742-4787 (pp. 980-981, fig. 4, first ref. on p. 983).	
mu	A65	CASTALDINI A ET AL: "Surface analyses of polycrystalline and Cz-Si wafers", Solar Energy Materials and Solar Cells, Elsevier Science Publishers, Amsterdam, NL; Vol. 72, No. 1-4, April 2002, pp. 425-432, XP004339790, ISSN: 0927-0248 (whole document).	
mu	A66	KORACH C S ET AL: "Measurement of perfluoropolyether lubricant thickness on a magnetic disk surface", Applied Physics Letters, American Institute of Physics, New York, NY, US; Vol. 79, No. 5, July 30, 2001, pp. 698-700, XP012029958, ISSN: 0003-6951 (p. 699, left column; fig. 2).	
mu	A67	YANG Y ET AL: "Kelvin probe study on the perfluoropolyether film on metals", Tribology Letters, 2001, Kluwer Academic/Plenum Publishers, USA, vol. 10, no. 4, pages 211-216, XP009035197, ISSN: 1023-8883 (page 211-page 212).	
mu	A68	CASTALDINI A ET AL: "Scanning Kelvin probe and surface photovoltage analysis of multicrystalline silicon", Materials Science and Engineering B., Elsevier Sequoia, Lausanne, CH; Vol. 91-92, April 30, 2002, pp. 234-238, XP004355534, ISSN: 0921-5107 (chapters "2.2 Scanning Kelvin probe: and "4.2 Scanning Kelvin probe analyses").	
mu	A69	LAGEL B ET AL: "A novel detection system for defects and chemical contamination in semiconductors based upon the scanning Kelvin probe", 14 <sup>th</sup> International Vacuum Congress (IVC-14). 10 <sup>th</sup> International Conference on Solid Surfaces (ICS-10). 5 <sup>th</sup> International Conference on Nanometre-Scale Science and Technology (NANO-5). 10 <sup>th</sup> International Conference on Quantitative Surface Analysis; Vol. 433-435, pp. 622-626, XP002292441, Surface Science, August 2, 1999, Elsevier, NL, ISSN: 003906028 (whole document).	
mu	A70	REN J ET AL: "Scanning Kelvin Microscope: a new method for surface investigations" 8. Arbeitstatgung Angewandte Oberflächenanalytik 'AOFA 8' ('Applied Surface Analysis'), Kaiserslautern, DE, September 5-8, 1994; Vol. 353, No. 3-4, pp. 303-306, XP009035181, Fresenius' Journal of Analytical Chemistry, October 1995, Springer-Verlag, DE, ISSN: 0937-0633 (p. 304, right column; fig. 1).	
mu	A71	BAUMGARTNER H ET AL: "Micro Kelvin probe for local work-function measurements", Review of Scientific Instruments, May 1988, USA; Vol. 59, No. 5, pp. 802-805, XP002292442, ISSN: 0034-6748 (abstract; fig. 4, chapter "V. Results").	
mu	A72	DANYLUK S: "Non-vibrating contact potential imaging for semiconductor fabrication", Semicon West 2003, 'Online!', July 14, 2003, pp. 1-15, XP002292443, retrieved from the internet: ,URL:http://dom.semi.org/web/wFiles.nsf/Lookup/TIS18_QceptTechnologiesInc/\$file/TIS18%20QceptTechnologiesInc.Alternate.pdf. 'retrieved on August 13, 2004 (whole document).	

Examiner Signature	Meagan Walling	Date Considered	11/1/05
--------------------	----------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitution for form 1449B/PTO <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> Date Submitted: January 20, 2005 (Use as many sheets as necessary)				<b>Complete If Known</b>	
Application Number				10/710,836	
Filing Date				08/05/2004	
First Named Inventor				M. Brandon Steele	
Group Art Unit				2877 2862	
Examiner Name					
Attorney Docket Number				023228-0115	

[illegible][illegible]

Examiner Signature	Meagan Walling	Date Considered	11/4/05
--------------------	----------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement.** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: January 20, 2025

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/710,836
Filing Date	08/05/2004
First Named Inventor	M. Brandon Steele
Group Art Unit	2877-2863
Examiner Name	
Attorney Docket Number	023228-0115

Sheet	2	of	2
-------	---	----	---

## NON PATENT LITERATURE DOCUMENTS

[illegible]

**Examiner  
Signature**

Mean Walling

Date  
Considered

11/4/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**



CHIC 1297407.1